SDA-01A USER MANUAL

1. Attention before use

1).Only professional technicians are allowed to do maintainence of the transmitter
2).Please set anti-thunder protections during bad weather(thunder, storm.etc)
3). Please don't turn on the transmitter without connecting the antenna well.
4).Please don't use the transmitter in the explosive environment(gas station, steam, etc)
5).Pleae don't use the transmitter in very damp/dusty/high temperature environment.
6). Please use the transmitter following the local wireless adminitration regulations.

2. Menu

1) Features
2) Configurations
3) The picture of front and back panel
4) Knob and buttons description
5) Operation Steps
6) Technical Specification
7) Troubleshooting
8) PC control software description

3.Product Features

SDA-01A is a new advanced FM transmitter with excellent and stable performance, easy operation, high definity sound quality and other outstanding features. It has exquisite design and professional look.

Main Features:

1). Wide frequency range: 76~108MHZ
2). Optional Channels: STEREO/MONO
3). Count down Power ON/OFF function
4). Power output is adjustable from 0~1w.
5). One button to control all the functions. Easy to operate.
6). Adopting several protection methods, it has strong empty load protection ability.
7).PC control of the transmitter easily through the software SDA-01A PC CONTROL.
8). Working status lighting: When the transmitter is OFF, the backlight of the knob is red. When the transmitter is working, the backlight of the knob is blue.

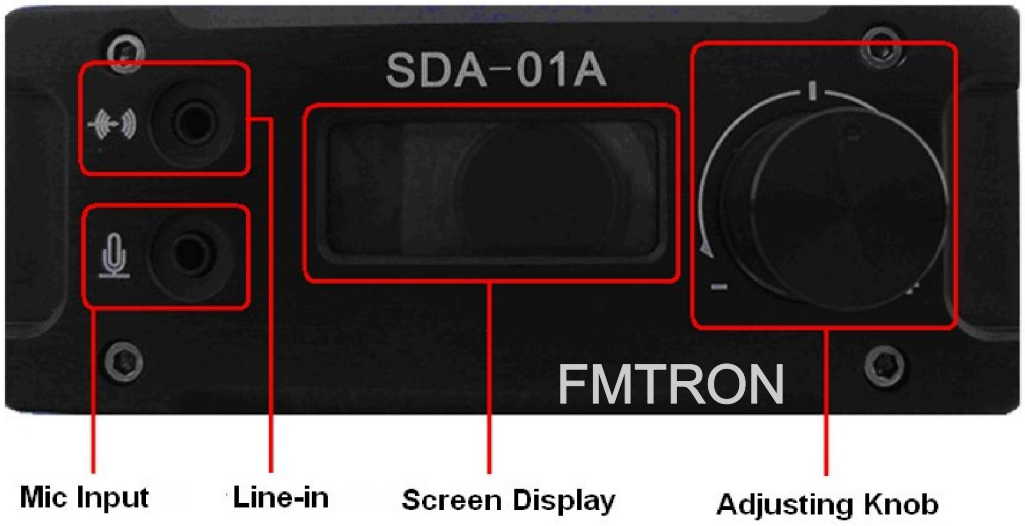
4. Product Configuration

No.	Name	Description	Quantity	Unit	Port
1	The transmitrer	SDA-01A	1	pcs	NO
2	Helical antenna	L/TNC connector	1	pcs	ANT
3	Power adapter	DC12V/1A	1	set	12.0V-1.0A

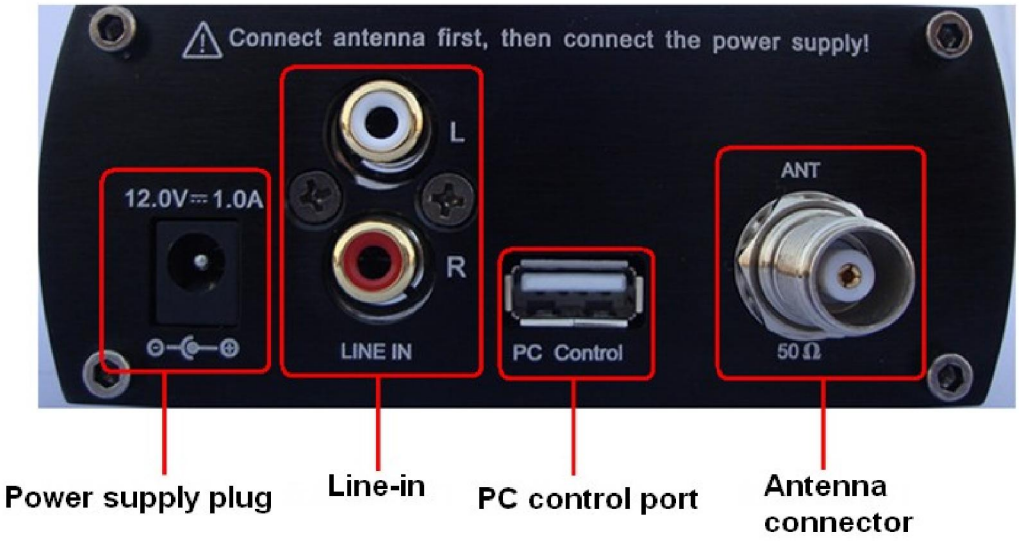
4	USB cable	USB male to male	1	pcs	PC Control
5	Audio cable 1	1to2 3.5mm to the Lotus plug	1	pcs	LINE IN
6	Audio cable 2	3.5mm connector male to male	1	pcs	
7	Microphone	3.5mm connector, Electret	1	set	
8	Manual	Hardware and software manual	2	pcs	NO

5. The Front and Back Panel of The Transmitter

1.Front Panel



2.Back Panel



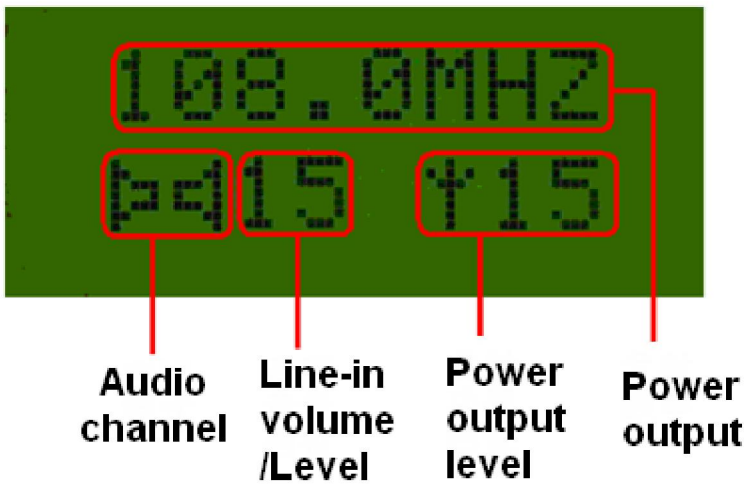
6.Knob Description

No.	Operation	Function	Description
1	Turn	Adjust	Shifting between the main page and parameter adjusting pages, (clockwise direction means increase, Counterclockwise means reduce)
2	Short press	Confirm	1、Enter/Exit the adjusting page 2、Restart the transmitter by short press the button at standby status.
3	Holding press	Confirm	1、On the main page, press and hold the knob, the transmitter will shift to standby status. 2、At standby status, press and hold the knob to enter the setting page
4	Knob backlight	Showing working status	1、 The light is red when standby 2、 The light is blue when working normally

7. Operation Steps

1) Main page display

After power on the transmitter, the screen will show the following:



2) Main page symbol explanation

NO	SYMBOL	NAME	DESCRIPTION
1	xxx.xMHz	Frequency	The current broadcasting frequency is

			xxx.xMHz
2	ᛉXX	Power Output Level	The current power output is x x level
5	x x	Line-in Volume Level	The volume of line in is x x level.
3		Stereo	The audio channel is Stereo
4		Mono	The audio channel is Mono
Remark: x stands for numerals			

Remind: In the adjusting pages, if there is no action in 30seconds, the screen will automatically goes back to main page.

3) Line-in Volume

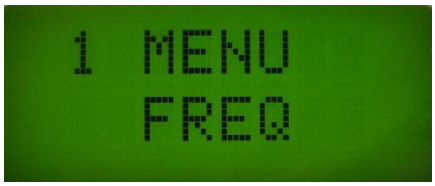
When the screen is on main page(Piture-01), turn the knob between 00~30 level to adjust the volume.

Picture-01

4) When the screen is on main page, press the knob to enter the parameter adjusting pages, there are 6 pages in total. When the screen shows 【6 MENU EXIT】, press the knob to exit and go back to main page.

5) Frequency adjusting【1 MENU FREQ】

At the page of **【1 MENU FREQ】** on the screen**(Picture-02)**, press the knob to enter frequency adjusting page **(Picture-03)**. Turn the knob between 76M~108M to set the frequency, press the knob to go back to the page of **【1 MENU FREQ】.**

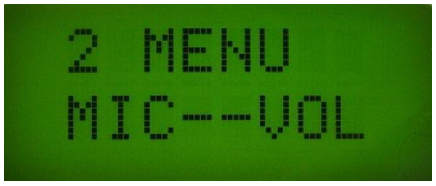


Picture-02

Picture-003

6) Microphone Volume Adjust【2 MENU MIC】

At the page of **【2 MENU MIC】（Picture-04），** press the knob to adjust the microphone volume between 00~30 levels(**picture-05**), press the knob to go back to **【2 MENU MIC】** after setting.



Picture-04

Picture-05

7). Scheduled Power ON/OFF【3 MENU APO】

a) At the page of **【3 MENU APO】(Picture-06)**，press the knob to enter scheduled Power OFF setting page,(picture-07), the time range is from 00：00：00~9：59：59（hour：minute：second）.After setting, press the knob to go back to 【3 MENU APO】page.

Picture-06

Picture-07

b) When the screen is showing OFF, it is in the standby status **(piture-08)**, press and hold the knob to enter scheduled power ON page, the setting range is 00：00：00~9：59：59（hour：minute：second），after setting, press the knob to confirm. The transmitter will begin scheduling power ON.

Picture-08

Picture-09

8). Audio channel shifting【4 MENU ST OR MO】

At the page of **【4 MENU ST OR MO】(picture-10)**, press the knob to enter MONO/STEREO shifting page**(picture-11, picture-12)**. Turn the knob to set the channel and press it to confirm and go back to Menu page.

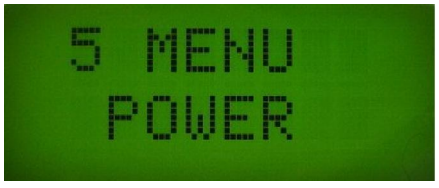
Picture-10

Picture-11

Picture-12

9). Power Output Adjusting【5 MENU POWER】

At the page of【5 MENU POWER】(Picture-13), press the knob to the power setting page(picture-14), turn the knob between level 00-15 to set the power output and press to confirm, then go back to the menu page.

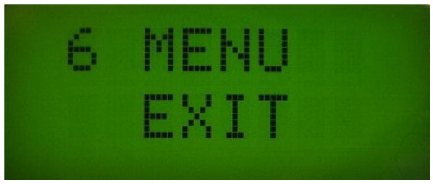


Picture-13

Picture-14

10).Back to main page【6 MENU EXIT】

At the page of【6 MENU EXIT】(**picture-15)**, **press the knob to confirm and go back to main page.**



Picture-15

11). Power OFF/ON

a) At the main page, press and hold the knob to turn OFF the transmitter (**picture-16**).

Picture-16

b)When the transmitter is OFF, press the knob, the transmitter will return to previous working status.

8. Technical Specification

No.	Item	Specification
1	Working Voltage	DC12V
2	Working Current	＜0.5A
3	Frequency Range	76~108MHz
4	Frequency Stability	±10PPM
5	Frequency Stepping	100KHz
6	Environment Temperature	-10℃~50℃
7	Output Impedance	50Ω
8	RF power output	0W~1W
9	Harmonics, spurious radiation	≤－50dB
10	Audio distortion	≤0.3%
11	Frequency Response	50Hz~15000Hz
12	Seperation	≥40 dB
13	Input level	≤－15 dBV
14	Frequency Modulation	±75KHZ

15	SNR	≥60 dB
16	Size	140 ㎜（L）*105 ㎜（W）*43 ㎜（H） （Excluding protrusions ）
17	Weight	550g

9. Troubleshooting

No.	Problems	Possible Reasons
1	The transmitter can't be turned ON	1）The socket is not with electricity； 2）Power adapter is not plugged well； 3）Power adapter is not standard 12V1A。
2	Very short transmitting range	1）Working environment is not good； 2）Power output is at small value； 3）The antenna is placed too low； 4）The frequency of transmitter doesn't match that of antenna； 5）The reception of receiver is not good.
3	No power output	1）The power output needs to be adjusted； 2）The transmitter is in OFF status.
4	Line-in with no sound	1）The line-in volume is at low value 2）The line-in signal is not normal； 3）The audio cable is not connected well.
5	Microphone with no sound	1）The microphone is not working well； 2）The microphone volume is at low value； 3）The microphone is not Electret.
6	Audio quality is low	1）The microphone has low quality； 2) The audio cable has weak performance in anti-jamming； 3）The audio input effect is not good； 4）The antenna is not well installed； 5）The volume of audio input/transmitter/receiver is not adjusted properly.

10. PC Control software

When the transmitter is working well, use the USB cable(male to male) to connect the transmitter and computer. Run the execute file, the transmitter will be under control of the software.

Please go to relative website to download the software and corresponding manual.

Attention: Since the antenna will be directed plugged on the transmitter, it is very near to the controlling computer, there might be interference to the computer and possibly cause non-function

of the software. Thus if this problem happens, please change to another computer with higher configuration, or use other indoor antennas to keep away from the transmitter and computer.